

# Trumpet Diatonics

## Trumpet Ranges

The image shows a musical staff with a treble clef and a key signature of one sharp (F#). The staff contains a sequence of notes representing the diatonic scale for a trumpet. The notes are grouped into five distinct ranges, each indicated by a bracket and a label above the staff:

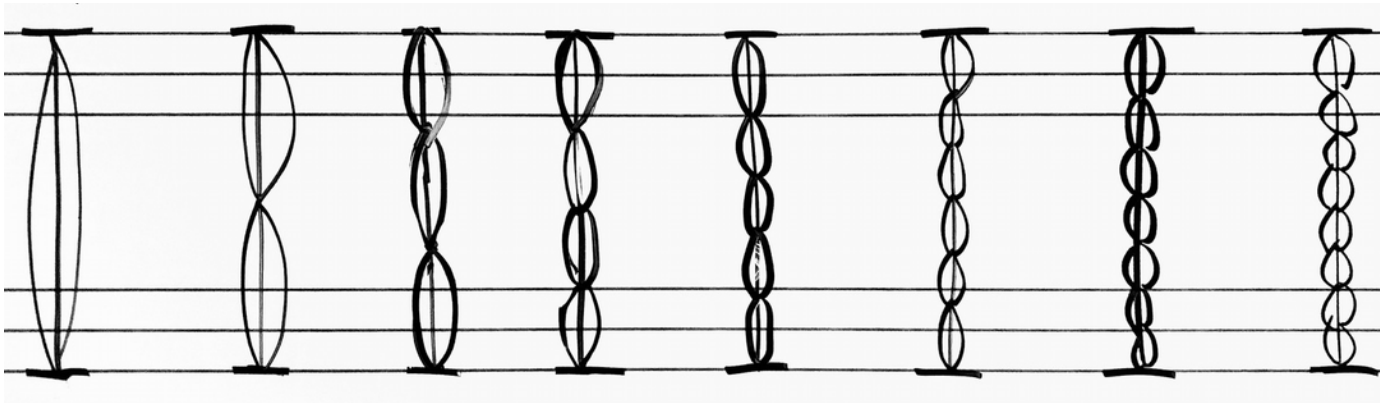
- Pedal Range:** The lowest notes, starting from the bottom line of the staff.
- Focus Pedal Range:** The notes immediately above the Pedal Range.
- Low Range:** The notes above the Focus Pedal Range.
- Middle Range:** The notes above the Low Range.
- High Range:** The highest notes, starting from the top line of the staff.

The notes are written as quarter notes, and the staff ends with a double bar line.

# Trumpet Diatonics Harmonic Series

JC Heisler

1:1      2:1      3:1      4:1      5:1      6:1      7:1      8:1



*Harmonic Series*

1:1      2:1      3:1      4:1      5:1      6:1      7:1      8:1

*Fundamental*

A musical staff in treble clef showing the harmonic series. The notes are: Fundamental (C4), C5, G4, F4, E4, D4, C4, and B3. The notes are placed on the staff lines and spaces. The 7th harmonic (B3) has a flat symbol, and the 8th harmonic (C4) has a sharp symbol.

## *Chromatic Range of Harmonic Series Ratios*

1:1      2:1

3:1      4:1

5:1      6:1

7:1      8:1

A series of four musical staves in treble clef, each showing a chromatic range of notes. The first staff shows the 1:1 and 2:1 ratios. The second staff shows the 3:1 and 4:1 ratios. The third staff shows the 5:1 and 6:1 ratios. The fourth staff shows the 7:1 and 8:1 ratios. Each staff contains a sequence of notes with various accidentals (sharps, flats, naturals) to show the chromatic range.

# Heart Mind Bell©

## The Seven Bugles & The Harmonic Series

JC Heisler

These Seven Tiers of Heart Mind Bell© are defined by the valve combinations that reflect the acoustical properties of the trumpet and their corresponding pitches. The Tiers are repetitive as each covers a specific range of notes. For example, Tier Two is comprised of all seven valve combinations that produce actual notes on the trumpet 0, 2, 1, 12, 23, 13, 123. These produce the notes: Low C, B, (Bb/A#), A, (Ab/G#), G, (Gb/F#). The ease and centering of resonance over the entire range of the trumpet is dependent on the accurate execution of these lowest notes in Tier Two. This is why Heart Mind Bell© connects all of the following Tiers with this Tier Two.

Tier Three makes up the same fingerings 0, 2, 1, 12, 23, 13, 123. However, the corresponding pitches are: Middle G, (Gb/F#), F, E, (Eb/D#), D, (Db/C#). Tier Four is expressed with the valve combinations 0, 2, 1, 12, 23, or pitches: Middle High C, B, (Bb/A#), A, (Ab/G#). See Below...

The thorough coordination of tone production and flexibility attained within each Tier presents a clear and graded framework for accurate and comfortable skill building.

Tier 2	Tier 3	Tier 4	Tier 5	Tier 6	Tier 7
C B Bb A Ab G F#	G F# F E Eb D C#	C B Bb A Ab	E Eb D C#	G F# F	C B Bb A Ab
0 2 1 12 23 13 123	0 2 1 12 23 13 123	0 2 1 12 23	0 2 1 12	0 2 1	0 2 1 12 23

2:1	3:1	4:1	5:1	6:1	8:1
0 123	0 123	0 123	0 123	0 123	0 123

# Trumpet Diatonics

## Seven Bugles & The Harmonic Series

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*During Rests:*

- Inhale for a natural, free release.

- Remove and replace mouthpiece, in coordination with aperture formation, at the release of the air.

Use Who and Pooh Attacks

Play softly.

2:1

C      B      Bb      A      Ab      G      F#  
0      2      1      12      23      13      123

3:1

G      F#      F      E      Eb      D      C#  
0      2      1      12      23      13      123

4:1

C      B      Bb      A      Ab      G      F#  
0      2      1      12      23      13      123

5:1

E      D#      D      C#      C      B      A#  
0      2      1      12      23      13      123

6:1












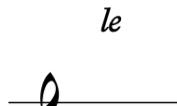
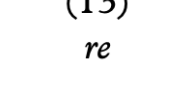
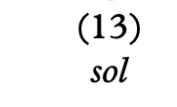
G      F#      F      E      Eb      D      C#  
0      2      1      12      23      13      123

7:1




















Bb      A      Ab      G      Gb      F      E  
0      2      1      12      23      13      123

8:1


C      B      Bb      A      Ab      G      F#  
0      2      1      12      23      13      123

0	 <p>G (0) <i>sol</i></p>	 <p>C (0) <i>do</i></p>
2	 <p>F# (2) <i>fi</i></p>	 <p>B (2) <i>ti</i></p>
1	 <p>F (1) <i>fa</i></p>	 <p>Bb (1) <i>te</i></p>
12	 <p>E (12) <i>mi</i></p>	 <p>A (12) <i>la</i></p>
23	 <p>Eb (23) <i>me</i></p>	 <p>Ab (23) <i>le</i></p>
13	 <p>D (13) <i>re</i></p>	 <p>G (13) <i>sol</i></p>
123	 <p>C# (123) <i>di</i></p>	 <p>F# (123) <i>fi</i></p>

*Trumpet Diatonics*

0	 <p>G (0) <i>sol</i></p>	 <p>C (0) <i>do</i></p>	 <p>E (0) <i>mi</i></p>	 <p>G (0) <i>sol</i></p>
2	 <p>F# (2) <i>fi</i></p>	 <p>B (2) <i>ti</i></p>	 <p>Eb (2) <i>me</i></p>	 <p>F# (2) <i>fi</i></p>
1	 <p>F (1) <i>fa</i></p>	 <p>Bb (1) <i>te</i></p>	 <p>D (1) <i>re</i></p>	 <p>F (1) <i>fa</i></p>
12	 <p>E (12) <i>mi</i></p>	 <p>A (12) <i>la</i></p>	 <p>C# (12) <i>di</i></p>	
23	 <p>Eb (23) <i>me</i></p>	 <p>Ab (23) <i>le</i></p>		
13	 <p>D (13) <i>re</i></p>			
123	 <p>C# (123) <i>di</i></p>			

0




C  
(0)  
*do*

2




B  
(2)  
*ti*

1




Bb  
(1)  
*te*

12



A  
(12)  
*la*

23



Ab  
(23)  
*le*